

Serstech Arx

Handheld Raman spectrometer

The Serstech Arx is a revolutionising instrument, introducing SharpEye™ – a patented autofocus technology for handheld Raman instruments. Serstech Arx will make it easier to identify unknown substances and to take decisions.

Serstech Arx and SharpEye™ identify substances precisely, thanks to automatically obtaining the optimal focus point in milliseconds. It can detect the difference between the container and the actual substance, giving an improved measurement result. The autofocus makes it possible to detect and minimise fluorescence from containers.

Serstech Arx is built on a modern software platform, putting usability and algorithms in focus. The brand new graphical user interface is easy to navigate and new features such as Guided Scan™ and the Quick Access™ feature make it possible to get precise results, faster.

The new algorithms are powerful when making fast and precise identifications, especially when it comes to complex mixes of substances. The results are presented in a simple way, making it possible for almost anyone to interpret and use when taking decisions.

Serstech Arx is lighter and smaller compared to previous Serstech models and yet – even more powerful. Serstech Arx lets the users get focused on what is important and take decisions based on reliable measurement results – wherever they are.

- Autofocus - SharpEye™
- New user interface.
- Wi-Fi
- No consumables, no maintenance cost.
- Create libraries and add your own substances.
- Quick and easy.



 **SERSTECH**
Chemical identification for a safer world ■

Specifications

Instrument Type	Handheld Raman spectrometer
Laser Excitation Wavelength	785 nm
Laser Output Power	3 levels available, max 300 mW
Max. Spectral Range	400 cm ⁻¹ to 2 300 cm ⁻¹
Autofocus	Serstech SharpEye™ technology (0-4 mm)
Spectral Resolution	8-10 cm ⁻¹
Detector Type	Linear CCD Array
Display	3.5" transmissive color TFT with LED backlighting
Memory	100 000 measurements (16 GB)
Data Formats	.txt, .csv, .jcamp
Connectivity	USB C, WiFi
Battery	Rechargeable. More than 8 hours of typical use.
Weight	590 g
Size	149 mm x 83 mm x 28 mm
Operating Temperature	-20 °C to +50 °C
Storage Temperature	-30 °C to +50 °C
Included Accessories	Vial holder, 90° angle adapter, watertight case, protective cap with calibration target, sample vials, USB C cable, AC Adapter 5 VDC/1 A USB for Charging
Optional Accessories	SERS kit to identify e.g. heroin and low concentration samples
Start-up Time	Less than 20 sec. in room temperature
Scan Time	Most substances less than 10 sec.

Exposure	Auto-exposure or manual exposure, 0.001 – 60 seconds
Libraries Provided	Explosives, incl. precursors; Narcotics incl. cutting agents, masking agents & precursors; Chemical Warfare Agents, incl. simulants; Hazardous materials, incl. toxic industrial chemicals; Pharmaceuticals with a wide range of active pharmaceutical ingredients. Total number of substances is more than 14 000.
Warranty	1 year. Additional warranty optional.
MTBF	50 000 h
Relative Humidity	5-90%
Approvals	CE, IEC 60529 IP67, MIL-STD-810G 514.6 (vibration), MIL-STD-810G 516.6 (functional shock), Title 21 CFR Part 11 compliant (Instrument and ChemDash)
Supported Languages	Chinese, Danish, English, French, German, Indonesian, Italian, Japanese, Korean, Polish, Russian, Spanish, Swedish and Turkish.
Software Included	ChemDash 2 Lite
Type of Substances	Solid, liquids, powders and tablets
Mixture Analysis	Yes
Delay Function	Yes, 1 second to 15 minutes
Additional Features	User authorisation, event logging, scan time delay, user-defined libraries, user-added substances

Specifications are subject to change without notice.
For the most up-to-date specifications, please visit www.serstech.com



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